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Abstract of the Disclosure

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. FIS920010077US1

Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

GATE LINEWIDTH TAILORING AND CRITICAL DIMENSION CONTROL FOR SUB-100 NM DEVICES USING PLASMA ETCHING Assignee Name: International Business Machines Corporation Assignee Residence: Armonk, New York and invented by: Jeffrey J. Brown, Sadanand Vinayak Deshpande, David V. Horak, Maheswaran Surendra, Len Y. Tsou, Qingyun Yang, Chienfan Yu and Ying Zhang 镰 a CONTINUATION APPLICATION, check appropriate box and supply the requisite information: Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: Which is a: ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: D C ntinuation Which is a: Continuation 🔲 Divisional 🔲 Continuation-in-part (CIP) of prior application No.: Enclosed are: **Application Elements** 1. Filing fee as calculated and transmitted as described below pages and including the following: 2. Specification having 18 Descriptive Title of the Invention b. 🔯 Cross References to Related Applications (if applicable) c. 🔲 Statement Regarding Federally-sponsored Research/Development (if applicable) d. 🔲 Reference to Microfiche Appendix (if applicable) e. 🔯 Background of the Invention f. 🔯 Brief Summary of the Invention g. 🔯 Brief Description of the Drawings (if drawings filed) h. 🔯 **Detailed Description** i. 🔯 Claim(s) as Classified Below

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_	Applicati n Elements (Continued)							
3.	. 🛚			ecessary as prescribed by 35 USC 113)				
	a.	. 🛛	Formal	Number of Sheets1				
	b.	. 🗆	Informal	Number of Sheets				
4.	×	Oaf	ath or Declaration					
	a.	. 🛛	Newly executed	(original or copy)				
	b.	. 🗆	Copy from a prio	or application (37 CFR 1.63(d)) (for continuation/divisional application only)				
	C.		With Power of At	ttorney Without Power of Attorney				
	d.	 d. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b). 						
		Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.						
		Computer Program in Microfiche (Appendix)						
] .		Nuc	:leotide and/or Ami	ino Acid Sequence Submission (if applicable, all must be included)				
IN Ci	a.		Paper Copy					
	b.		Computer Readal	ble Copy (identical to computer copy)				
ij ļi	C.		Statement Verifyir	ng Identical Paper and Computer Readable Copy				
				Accompanying Application Parts				
8.	×	Assiç	gnment Papers (co	over sheet & document(s))				
9.		37 C	FR 3.73(B) Staten	ment (when there is an assignee)				
10.		English Translation Document (if applicable)						
11.		Information Disclosure Statement/PTO-1449 Copies of IDS Citations						
12.		Prelir	iminary Amendmen	nt				
13.	×	Ackn	Acknowledgment postcard					
14.		Certificate of Mailing						
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Docket No. FIS920010077US1

Total Pages in this Submission

		Accompanying Application Parts (Continued)						
15.		Certified Copy of Priority Document(s) (if foreign priority is claimed)						
16.	Additional Enclosures (please identify below):							
16. The state of t		Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2) Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application. Warning An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.						

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Total Pages in this Submission

Fee Calculation and Transmittal

For	#Filed	#Allowed	#Extra		Rate	Fee			
T tal Claims	16	- 20 =	.0	x	\$18.00	\$0.00			
Indep. Claims	4	- 3 =	1	×	\$80.00	\$80.00			
Multiple Dependent Claims (check if applicable) \$0.00									
D BASIC FEE \$710.00									
OTHER FEE (specify purpose) \$0.00									
TOTAL FILING FEE									
 A check in the amount of to cover the filing fee is enclosed. ☑ The Commissioner is hereby authorized to charge and credit Deposit Account No. 09-0458 FI-242 as described below. A duplicate copy of this sheet is enclosed. ☑ Charge the amount of \$790.00 as filing fee. ☑ Credit any overpayment. ☑ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17. ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowahce, pursuant to 37 C.F.R. 1.311(b). 									
ated: Ira D. Blecker									

CC:

Registration No. 29,894 "IBM Corporation

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2070 Rt. 52 Hopewell Junction, NY 12533

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Docket No.							
Applicant(s): Jeffrey J.			FIS920010077US1				
Serial No.	Filing Date	Examiner		Group Art Unit			
Invention: GATE LINEWIDTH TAILORING AND CRITICAL DIMENSION CONTROL FOR SUB-100 NM DEVICES USING PLASMA ETCHING							
I hereby certify that thi	s <u>Utility Patent Application Tr</u>	ansmittal (Identify type of correspondence)					
is being deposited with	h the United States Postal Servi		to Ado	dressee" service under			
07 OFD 4 40 in an an		•					
ョ 37 CFR 1.10 in an er	nvelope addressed to: The Com	missioner of Patents and Tra	idema	rks, Washington, D.C.			
្ឋ្រី 20231-0001 on	5/2/01						
20231-0001 on	<u> </u>	Karen Cinq-Mars (Typed or Printed Name of Person Mailing Correspondence) Acren [ing-Viller] 5/5/0) (Signature of Person Mailing Correspondence) EK140407020US ("Express Mail" Mailing Label Number)					
	Note: Each paper must ha	eve its own certificate of mailing.					